

Hiroshi HAGANE
Appln. No. 09/771,880
Preliminary Amendment

REMARKS

The Summary of the Invention and Claims 1-17 have been amended to change the term "radio portable terminal" to "terminal". In Claims 3-5 and 14-16, the term "IP" has been amended to read "packet communication". Entry and consideration of this Amendment are respectfully requested.

Respectfully submitted,

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APPENDIX
VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

Page 3, paragraph 3, bridging pages 3-4:

In order to achieve the above objects, according to the present invention, there is provided an information search system comprising a ~~radio portable~~-terminal having a speech communication function and packet communication function, and a center for selectively performing speech communication and packet communication with the ~~radio portable~~-terminal, the center including speech control means for performing speech communication with the ~~radio portable~~-terminal during execution of packet communication by the ~~radio portable~~-terminal, speech recognition means for recognizing a speech signal received by the speech control means and sent from the ~~radio portable~~-terminal, information search means for searching for information on the basis of the speech information recognized by the speech recognition means, speech conversion means for converting the speech information of the information searched out by the information search means into a speech signal and outputting the signal to the speech control means, the speech signal from the speech conversion means being transmitted to the ~~radio portable~~-terminal by the speech control means, and packet control means for transmitting image/character information of the information searched by the information search means to the ~~radio portable~~-terminal by packet communication.

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IN THE CLAIMS:

The claims are amended as follows:

1. An information search system characterized by comprising:

 a ~~radio portable~~-terminal having a speech communication function and packet communication function; and

 a center for selectively performing speech communication and packet communication with said ~~radio portable~~-terminal,

 said center including

 speech control means for performing speech communication with said ~~radio portable~~-terminal during execution of packet communication by said ~~radio portable~~-terminal,

 speech recognition means for recognizing a speech signal received by said speech control means and sent from said ~~radio portable~~-terminal,

 information search means for searching for information on the basis of the speech information recognized by said speech recognition means,

 speech conversion means for converting the speech information of the information searched out by said information search means into a speech signal and outputting the signal to said speech control means, the speech signal from said speech conversion means being transmitted to said ~~radio portable~~-terminal by said speech control means; and

 packet control means for transmitting image/character information of the information searched by said information search means to said ~~radio portable~~-terminal by packet communication.

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2. A system according to claim 1, wherein said information search means searches for information through the Internet.

3. A system according to claim 1, wherein said system further comprises a table indicating a relationship between a self-station-~~IP~~ packet communication address of said ~~radio portable~~ terminal and a self-station speech communication address, and

 said speech control means looks up said table when speech communication is started, and notifies said packet control means of a self-station-~~IP~~ packet communication address corresponding to the self-station speech communication address of said ~~radio portable~~ terminal which is notified by the calling number identification notifying function.

4. A system according to claim 3, wherein the self-station speech communication address is transmitted from said ~~radio portable~~ terminal to said center by packet communication, and the relationship between the self-station-~~IP~~ packet communication address of the packet communication and the self-station speech communication address transmitted from said ~~radio portable~~ terminal is registered in said table.

5. A system according to claim 1, wherein a speech communication address of said center is designated by said center with respect to said ~~radio portable~~ terminal during execution of packet communication by said ~~radio portable~~ terminal, and

 an-~~IP~~ packet communication address of said ~~radio portable~~ terminal which has performed speech communication with said center is acquired by specifying said ~~radio portable~~ terminal from the terminated speech communication address.

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6. A system according to claim 1, wherein said center further comprises communication control means for switching speech communication by said speech control means and packet communication by said packet communication means.
7. A system according to claim 6, wherein said ~~radio portable~~ terminal comprises switch means for alternately switching speech communication and packet communication, and said communication control means performs switching operation in accordance with an output from said switch means.
8. A system according to claim 6, wherein said communication control means automatically performs switching operation under sequence control.
9. A system according to claim 1, wherein said ~~radio portable~~ terminal comprises a microphone to which speech transmitted to said center is input, a speaker for outputting a speech signal transmitted from said center, a display screen on which image/character information transmitted from said center is displayed, and a key operation section for performing dial-input operation.
10. A system according to claim 1, wherein said ~~radio portable~~ terminal comprises radio means for performing radio communication with a base station to which said center is connected, speech communication means for performing speech communication with said center,

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packet communication means for performing packet communication with said center, and

communication control means for switching speech communication by said speech communication means and packet communication by said packet communication means.

11. A ~~radio portable~~ terminal of an information search system for searching for information by selectively performing speech communication and packet communication with a center, characterized by comprising:

a microphone to which speech transmitted to the center by speech communication is input;

a speaker for outputting a speech signal transmitted from the center by speech communication;

a display screen on which image/character information transmitted from the center by packet communication is displayed; and

a key operation section for performing dial-input operation.

12. A terminal according to claim 11, further comprising:

radio means for performing radio communication with a base station to which the center is connected;

speech communication means for inputting/outputting a speech signal between said speaker and said microphone by performing speech communication with said center;

packet communication means for outputting image/character information to said display screen by performing packet communication with the center; and

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communication control means for switching speech communication by said speech communication means and packet communication by said packet communication means.

13. A center of an information search system for searching for information by selectively performing speech communication and packet communication with a ~~radio portable~~ terminal, characterized by comprising:

speech control means for performing speech communication with the ~~radio portable~~ terminal during execution of packet communication by the ~~radio portable~~ terminal;

speech recognition means for recognizing a speech signal received by said speech control means and sent from the ~~radio portable~~ terminal;

information search means for searching for information on the basis of the speech information recognized by said speech recognition means;

speech conversion means for converting the speech information of the information searched out by said information search means into a speech signal and outputting the signal to said speech control means, the speech signal from said speech conversion means being transmitted to the ~~radio portable~~ terminal by said speech control means; and

packet control means for transmitting image/character information of the information searched by said information search means to the ~~radio portable~~ terminal by packet communication.

14. A center according to claim 13, wherein said system further comprises a table indicating a relationship between a self-station IP packet communication address of the ~~radio portable~~ terminal and a self-station speech communication address, and

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 said speech control means looks up said table when speech communication is started, and notifies said packet control means of a self-station-~~IP~~ packet communication address corresponding to the self-station speech communication address of the ~~radio portable~~ terminal which is notified by the calling number identification notifying function.

15. A center according to claim 14, wherein the self-station speech communication address is transmitted from the ~~radio portable~~ terminal to said center by packet communication, and the relationship between the self-station-~~IP~~ packet communication address of the packet communication and the self-station speech communication address transmitted from the ~~radio portable~~ terminal is registered in said table.

16. A system according to claim 13, wherein a speech communication address of said center is designated by said center with respect to the ~~radio portable~~ terminal during execution of packet communication by the ~~radio portable~~ terminal, and

 an-~~IP~~ packet communication address of the ~~radio portable~~ terminal which has performed speech communication with said center is acquired by specifying the ~~radio portable~~ terminal from the terminated speech communication address.

17. A center according to claim 13, further comprising communication control means for switching speech communication by said speech control means and packet communication by said packet communication means in accordance with switching operation of the ~~radio portable~~ terminal.

Claim 18 is added as a new claim.